

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A magnet for an NMR analyzer, in which an electric conductor is wound around an axis as a magnetic axis, and by turning on the electric conductor, a magnetic field that includes a measurement space for conducting measurement is generated in the space which is surrounded by the electric conductor, and a probe for measuring an NMR signal is insertable into a first access port wherein

said electric conductor is wound such that the magnet includes the first access port for receiving the probe and through which access from the outside of the magnet to said measurement space is possible via the vicinity of said magnet axis and a second access port for receiving a tube containing a sample to be measured and which enables access in a direction different from a direction of access of the first access port, and said electric conductor does not interfere with the area where the first and second access ports are located; and when the sizes of the first and second access ports are compared based on the definition that the effective diameter of the first and second access ports is the diameter of a cylinder which can be inserted into the access port, the effective diameter of the second access port is smaller than that of the first access port.

2. (previously presented) A magnet for an NMR analyzer, in which a first coil

in which an electric conductor is wound around an axis as a magnetic axis is disposed facing a second coil which is formed in the same manner as the first coil and wound around the same axis, and a magnetic field that includes a measurement space is formed inside the space surrounded by the first and second coils, wherein

the magnet has a first access port for receiving a probe for measuring an NMR signal and through which access to said measurement space is possible in the direction of said magnetic axis and also a second access port for receiving a tube containing a sample to be measured, which enables access in the direction different from a direction of access of the first access port, in a clearance between the first coil and the second coil; and when the sizes of the first and second access ports are compared based on the definition that the effective diameter of the first and second access ports is the diameter of a cylinder which can be inserted into the access port, the effective diameter of the second access port is smaller than that of the first access port.

3. (previously presented) A magnet for an NMR analyzer according to claim 1, wherein said second access port passes through the magnet and has an effective diameter of about 20mm.

4. (original) A magnet for an NMR analyzer according to claim 1, comprising at least one superconducting coil.

5. (original) A magnet for an NMR analyzer according to claim 1, wherein said magnetic axis is oriented horizontally.

6. (original) A magnet for an NMR analyzer according to claim 5, wherein said first access port is oriented horizontally and said second access port is not positioned vertically.

7. (original) A magnet for an NMR analyzer according to claim 1, comprising a third access port different from said first and second access ports.

8. (original) A magnet for an NMR analyzer according to claim 7, wherein said third access port passes through the measurement space and passes through said magnet.

9. (original) A magnet for an NMR analyzer according to claim 1, comprising more than one access port having a non-circular sectional view.

10. (original) An NMR analyzer comprising a magnet for an NMR analyzer according to claim 1.

11. (previously presented) An NMR analyzer according to claim 10, wherein the probe has a solenoid-type detection coil for measuring an NMR signal and is inserted from the first access port, the sample to be measured which is contained in the tube is inserted from the second access port, and the

positions of the probe and the sample meet in said measurement space so that NMR measurement can be conducted.

12. (previously presented) An NMR analyzer comprising a magnet in which an electric conductor is wound around an axis as a magnetic axis, and by turning on the electric conductor, a magnetic field that includes a measurement space is generated in the space including said magnetic axis and surrounded by said electric conductor; a first access port for accessing said measurement space in the axial direction; and a second access port which enables access in a different direction from a direction of access of the first access port, wherein

a probe having a solenoid-type detection coil for measuring an NMR signal is inserted from the first access port, and a sample to be measured which is contained in a tube is inserted from the second access port, and the positions of said probe and said sample meet in said measurement space so that NMR measurement can be conducted.

13. (previously presented) An NMR analyzer comprising a magnet for an NMR analyzer in which a first coil in which an electric conductor is wound around an axis as a magnetic axis is disposed facing a second coil which is formed in the same manner as the first coil and wound around the same axis, and a magnetic field that includes a measurement space is formed inside the space surrounded by the first and second coils; a first access port through which access to said measurement space is possible in the direction of said

magnetic axis; and a second access port which enables access in a different direction from a direction of access of the first access port; wherein

a probe having a solenoid-type detection coil for measuring an NMR signal is inserted from the first access port, and a sample to be measured which is contained in a tube is inserted from the second access port, and the positions of said probe and said sample meet in said measurement space so that NMR measurement can be conducted.

14. (previously presented) An NMR analyzer according to claim 12, wherein said second access port passes through the magnet and has an effective diameter of about 20 mm.

15. (original) An NMR analyzer according to claim 12, 13 or 14, wherein said magnet comprises at least one superconducting coil.

16. (original) An NMR analyzer according to claim 12, wherein said magnet is positioned so that said magnetic axis is oriented horizontally.

17. (previously presented) An NMR analyzer according to claim 12, wherein said first access port is oriented horizontally and said second access port is not vertically oriented.

18. (original) An NMR analyzer according to claim 12, further comprising a third access port different from said first and second access ports.

19. (original) An NMR analyzer according to claim 18, wherein said third access port passes through said measurement space and passes through the magnet.

20. (original) An NMR analyzer according to claim 12, comprising more than one access port having a non-circular sectional view.